

# STN-Strud-use Search

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L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:268199 CAPLUS

DOCUMENT NUMBER: 140:305382

TITLE: 9-Cyano-3,4-perylenedicarboximide dyes, their production and their use

INVENTOR(S): Boehm, Arno; Blaschka, Peter; Helfer, Willi; Hammel, Dirk; Schlichting, Peter; Muellen, Klaus

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 30 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

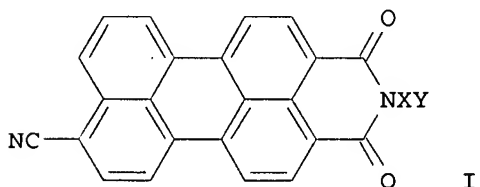
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10243906	A1	20040401	DE 2002-10243906	20020920
WO 2004029028	A2	20040408	WO 2003-EP9946	20030908
WO 2004029028	A3	20050421		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003266364	A1	20040419	AU 2003-266364	20030908
EP 1542975	A2	20050622	EP 2003-798150	20030908
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1681792	A	20051012	CN 2003-822438	20030908
JP 2006511478	T	20060406	JP 2004-538873	20030908
US 2006229385	A1	20061012	US 2005-528475	20050321
PRIORITY APPLN. INFO.:			DE 2002-10243906	A 20020920
			WO 2003-EP9946	W 20030908

OTHER SOURCE(S): MARPAT 140:305382

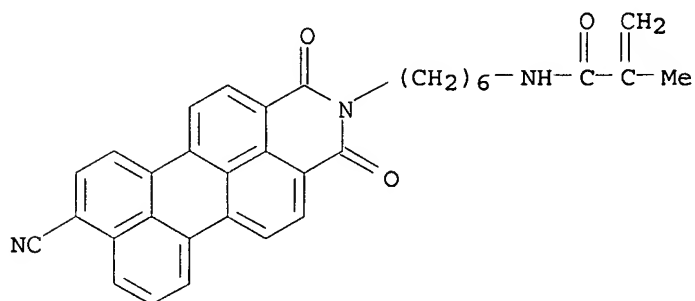
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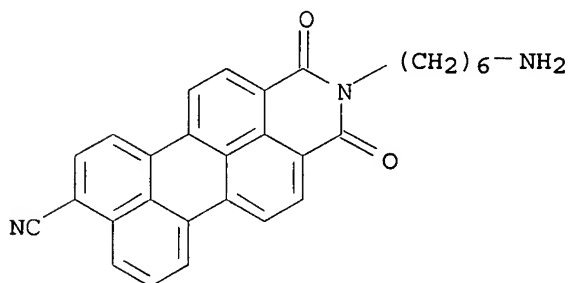
AB 9-Cyano-3,4-perylenedicarboximides (I; X = optionally substituted alkylene, cycloalkylene, arylene, heteroarylene; Y = amino, hydroxy, carboxy, sulfo, Cl, Br, polymerizable group) are disclosed. I are fluorescent dyes and may be prepared starting from the appropriate anhydrides. In an example, 9-bromo-3,4-perylenedicarboxylic anhydride was prepared and then converted to the 9-cyano compound with CuCN. Imidation with 5-amino-1-pentanol gave the dicarboximide, which could be esterified with acryloyl or methacryloyl chloride to yield a polymerizable dye.

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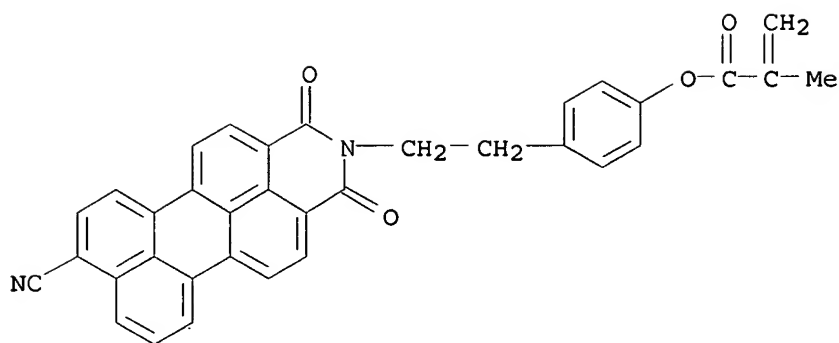
IT 676363-36-3P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(brown dye monomer; production of fluorescent cyanoperylenedicarboximide dyes)  
RN 676363-36-3 CAPLUS  
CN 2-Propenamide, N-[6-(8-cyano-1,3-dioxo-1H-perylo[3,4-cd]pyridin-2(3H)-yl)hexyl]-2-methyl- (9CI) (CA INDEX NAME)



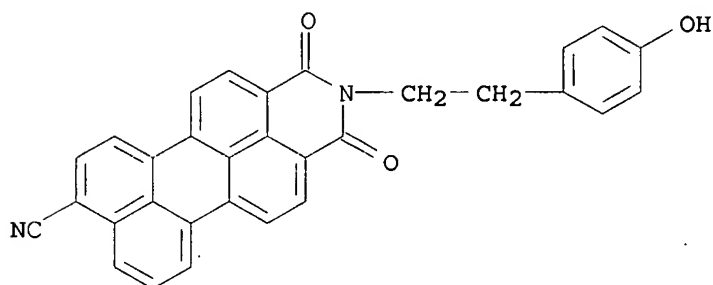
IT 676363-25-0P  
RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(brown dye; production of fluorescent cyanoperylenedicarboximide dyes)  
RN 676363-25-0 CAPLUS  
CN 1H-Perylo[3,4-cd]pyridine-8-carbonitrile, 2-(6-aminoethyl)-2,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)



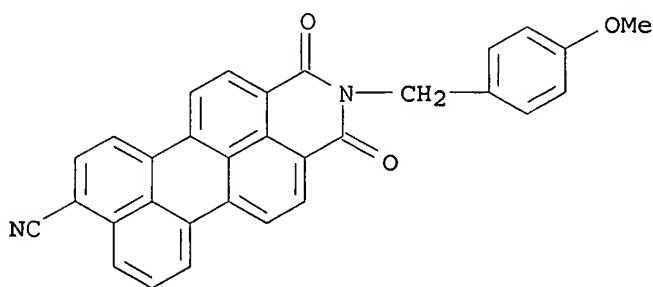
IT 676363-41-0P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(brown-orange dye monomer; production of fluorescent cyanoperylenedicarboximide dyes)  
RN 676363-41-0 CAPLUS  
CN 2-Propenoic acid, 2-methyl-, 4-[2-(8-cyano-1,3-dioxo-1H-perylo[3,4-cd]pyridin-2(3H)-yl)ethyl]phenyl ester (9CI) (CA INDEX NAME)



IT 676363-29-4P  
 RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (brown-orange dye; production of fluorescent cyanoperylenedicarboximide dyes)  
 RN 676363-29-4 CAPLUS  
 CN 1H-Perylo[3,4-cd]pyridine-8-carbonitrile, 2,3-dihydro-2-[2-(4-hydroxyphenyl)ethyl]-1,3-dioxo- (9CI) (CA INDEX NAME)



IT 676363-21-6P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (brown-orange dye; production of fluorescent cyanoperylenedicarboximide dyes)  
 RN 676363-21-6 CAPLUS  
 CN 1H-Perylo[3,4-cd]pyridine-8-carbonitrile, 2,3-dihydro-2-[(4-methoxyphenyl)methyl]-1,3-dioxo- (9CI) (CA INDEX NAME)



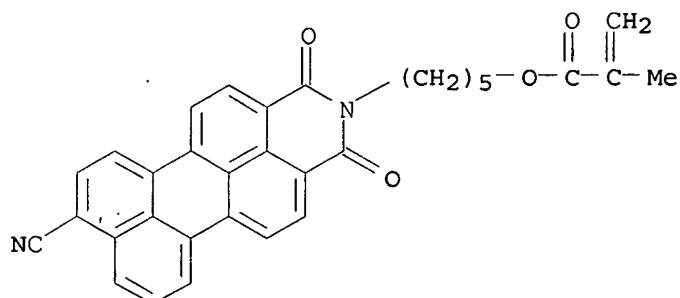
IT 676363-34-1P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

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(brown-red dye monomer; production of fluorescent  
cyanoperylenedicarboximide dyes)

RN 676363-34-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 5-(8-cyano-1,3-dioxo-1H-perylo[3,4-cd]pyridin-  
2(3H)-yl)pentyl ester (9CI) (CA INDEX NAME)



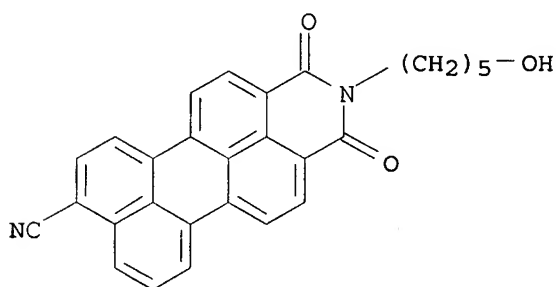
IT 676363-23-8P

RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or  
engineered material use); PREP (Preparation); RACT (Reactant or reagent);  
USES (Uses)

(brown-red dye; production of fluorescent cyanoperylenedicarboximide dyes)

RN 676363-23-8 CAPLUS

CN 1H-Perylo[3,4-cd]pyridine-8-carbonitrile, 2,3-dihydro-2-(5-hydroxypentyl)-  
1,3-dioxo- (9CI) (CA INDEX NAME)



IT 676363-33-0P

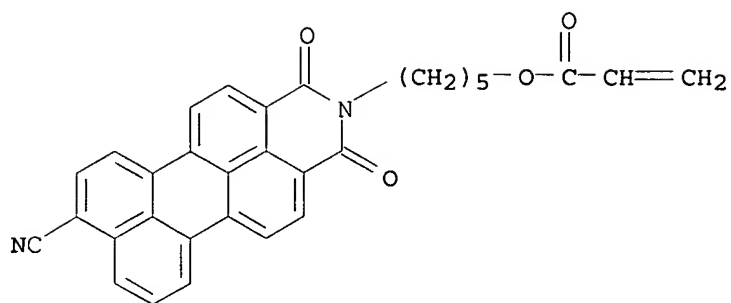
RL: IMF (Industrial manufacture); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)

(red-brown dye monomer; production of fluorescent  
cyanoperylenedicarboximide dyes)

RN 676363-33-0 CAPLUS

CN 2-Propenoic acid, 5-(8-cyano-1,3-dioxo-1H-perylo[3,4-cd]pyridin-2(3H)-  
yl)pentyl ester (9CI) (CA INDEX NAME)

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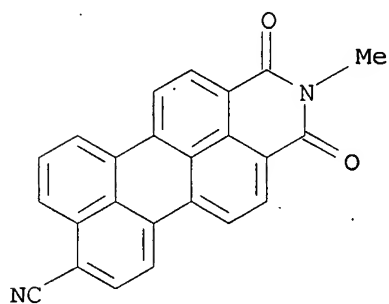
IT 676363-10-3P 676363-12-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(red-brown dye; production of fluorescent cyanoperylenedicarboximide dyes)

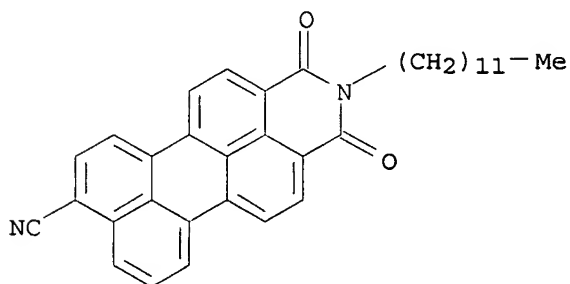
RN 676363-10-3 CAPLUS

CN 1H-Perylo[3,4-cd]pyridine-8-carbonitrile, 2,3-dihydro-2-methyl-1,3-dioxo- (9CI) (CA INDEX NAME)



RN 676363-12-5 CAPLUS

CN 1H-Perylo[3,4-cd]pyridine-8-carbonitrile, 2-dodecyl-2,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)



IT 676363-14-7P

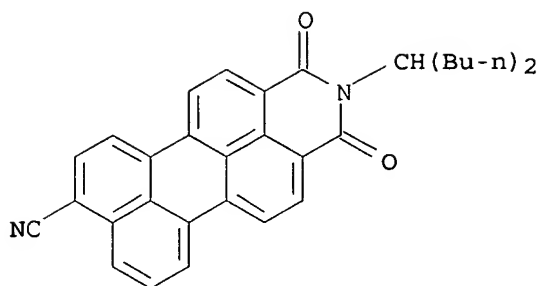
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(red-orange dye; production of fluorescent cyanoperylenedicarboximide dyes)

RN 676363-14-7 CAPLUS

CN 1H-Perylo[3,4-cd]pyridine-8-carbonitrile, 2-(1-butylpentyl)-2,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)

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(FILE 'HOME' ENTERED AT 17:08:58 ON 20 DEC 2007)

FILE 'REGISTRY' ENTERED AT 17:09:12 ON 20 DEC 2007

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 11 S L1 FULL

FILE 'CAPLUS' ENTERED AT 17:09:39 ON 20 DEC 2007

L4 1 S L3

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L1 HAS NO ANSWERS

L1 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

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